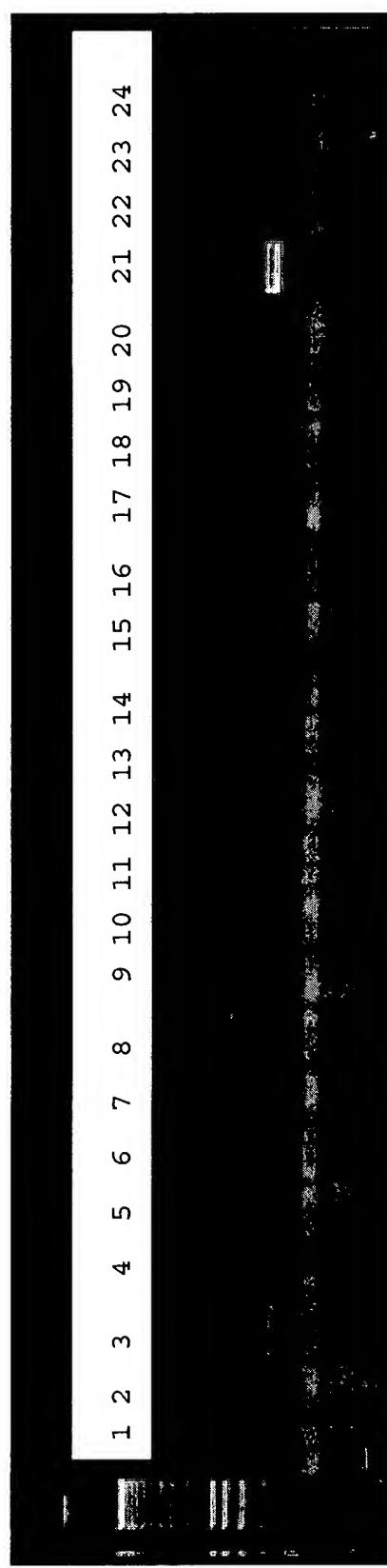


Figure 1



Mouse	MGGCEVREFLLOQGFFLPLLTAWTGDCSHVSN-QVVLLDTTVMGELGWKTYPLNGWDAI	59
Human	MGGCEVREFLLOQGFFLPLLTAWPGDCSHVSNQVLLDTTVLGELGWKTYPLNGWDAI	60
	*****	*****
Mouse	TEMDEHNRPIHTYQVCNVMEPNQNNWLRNWRDAAQKIVYVEMKFTLRDCNSIPWVLGT	119
Human	TEMDEHNRPIHTYQVCNVMEPNQNNWLRNWRDAAQKIVYVEMKFTLRDCNSIPWVLGT	120
	*****	*****
Mouse	CKETFNLYYIESDESHGTFKPKPSQYKIDTIAADESFTQMDLGDRILKLNTEIREVGPIE	179
Human	CKETFNLFYMESDESHGIFKPKPNQYTKIDTIAADESFTQMDLGDRILKLNTEIREVGPIE	180
	*****	*****
Mouse	RKGFYLAQDQDIGACIALVSVRVFYKKCPFTVRSALAMFPDTIPRVDSSLVEVRGSCVKSA	239
Human	RKGFYLAQDQDIGACIALVSVRVFYKKCPFTVRLAMFPDTIPRVDSSLVEVRGSCVKSA	240
	*****	*****
Mouse	EERDTPKLYCGADGDWLVLGRCICSTGYEEIEGSCHACRPGFYKAFAGNTKCSKCPPHS	299
Human	EERDTPKLYCGADGDWLVLGRCICSTGYEEIEGSCHACRPGFYKAFAGNTKCSKCPPHS	300
	*****	*****
Mouse	STYVEATSVCHCEKGYFRAEKDPPSMACTRPPSAPRNVAFNINETALILEWSPPSDTGGR	359
Human	LTYMEATSVQCCEKGYFRAEKDPPSMACTRPPSAPRNVVFNINETALILEWSPPSDTGGR	360
	*****	*****
Mouse	KDLTYSVICKKCGLDTTQCEDCGGLRFIPRHTGLINNSVVVLDFVSHVNYTFEIEAMNG	419
Human	KDLTYSVICKKCGLDTSQCEDCGGLRFIPRHTGLINNSVIVLDFVSHVNYTFEIEAMNG	420
	*****	*****
Mouse	VSELSISPKPFTAIVTDTDHDAPSLSIGMMRKDWASQNSLALSQAPAFSNGAILDYETKY	479
Human	VSELSFSPKPFTAIVTDTDQDAPSLSIGVVRKDQDWASQNSIALSWSQAPAFSNGAILDYEIKY	480
	*****	*****
Mouse	YEKEHEQLTYSSTRSKAPSIVTGLKPATTYIFHIRVRTATGYSQKFEFETGDETSD	539
Human	YEKEHEQLTYSSTRSKAPSVIITGLKPATKYVFHIRVRTATGYSQKFEFETGDETSD	540
	*****	*****
Mouse	MAAEQGQILVIATAAVGGFTLLVILTLFLITGRCQWYIKAKMKSEEKRRTHLQNGHLRF	599
Human	MAAEQGQILVIATAAVGGFTLLVILTLFLITGRCQWYIKAKMKSEEKRRNLQNGHLRF	600
	*****	*****
Mouse	PGIKTYIDPDTYEDPSLAVHEFAKEIDPSRIRIERTIGAGEFGEVCSGRLKTPGKREIPV	659
Human	PGIKTYIDPDTYEDPSLAVHEFAKEIDPSRIRIERTIGAGEFGEVCSGRLKTPGKREIPV	660
	*****	*****
Mouse	AIKTLKGHHMDRQRDFLREASIMQFDHPNIIRLEGVVTKRSFPAIGVEAFCPSFLRAG	719
Human	AIKTLKGHHMDRQRDFLREASIMQFDHPNIIRLEGVVTKRSFPAIGVEAFCPSFLRAG	720
	*****	*****
Mouse	FLNGIQAPHVTAGGSLLPPRIPAGRPVMIVVEYMENGSLDSFLRKHDGHFTVIQLVGLR	779
Human	FLNSIQAPHVPGGSLPPRIPAGRPVMIVVEYMENGSLDSFLRKHDGHFTVIQLVGLR	780
	*****	*****
Mouse	GIASGMKYLSDMGYVHRDLAARNILVNSNLVCKVSDFGLSRVLEDDPEAAYTTGGKIP	839
Human	GIASGMKYLSDMGYVHRDLAARNILVNSNLVCKVSDFGLSRVLEDDPEAAYTTGGKIP	840
	*****	*****
Mouse	RWTAPEAIAYRKFSSASDAWSYGIVMWEVMSYGERPYWEMSQNQDVILSIEEGYRLPAPMG	899
Human	RWTAPEAIAYRKFSSASDAWSYGIVMWEVMSYGERPYWEMSQNQDVILSIEEGYRLPAPMG	900
	*****	*****
Mouse	CPPSLQQLMLHCWQKERNHRPKFTDIVSFLDKLIRNPSPALHTLVEDILVMPESPVDPEY	959
Human	CPASLHQMLHCWQKERNHRPKFTDIVSFLDKLIRNPSPALHTLVEDILVMPESPGEVPEY	960
	*****	*****
Mouse	PLFVTVGDWLDSIKMGQYKNSFMAAGFTTFDLISRMSIDDIRIGVILIGHQRIVSSIQ	1019
Human	PLFVTVGDWLDSIKMGQYKNNFVAAGFTTFDLISRMSIDDIRIGVILIGHQRIVSSIQ	1020
	*****	*****
Mouse	TLRLHMMHIQEKGFHV 1035	
Human	TLRLHMMHIQEKGFHV 1036	
	*****	*****

FIGURE 2

### Figure 3

Human: 3    aggacccccatccatcccagaacacccgcctgcgtgcgcacttcttttaaggaga 62  
  ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Mouse: 205    aggacccccacgctacttaggaacacccatggctgcgtgcgcacttcttttaagg---a 261

Human: 63    gaaaaagagagcctaggagaaccatgggggctgcgaagtccggaaatttctttgcaat 122  
  ||||| ||||| ||| | ||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Mouse: 262    ggagaagagaaccaaccagagccatgggggctgcgaagtccggaaatttctttgcaat 321

Human: 123    ttggtttcttctgcctctgtgcacagcgtggccaggcgactgcagtcacgtctccaaca 182  
  ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Mouse: 322    ttggtttcttctgcctctgtgcacggcttggaccggcgactgcagtcacgtctccaac- 380

Human: 183    accaagtgtgttgcataacaacaactgtactggagagctaggatggaaaacatatac 242  
  ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Mouse: 381    --caagtgtgttgcataacaaccacagtgtggagaaactaggatggaaaacatatac 438

Human: 243    cattaaatgggtggatgccatcactgaaatggatgaacataataggcccattcacat 302  
  ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Mouse: 439    cattaaatgggtggatgccattactgaaatggatgaacacaataggcccatacacat 498

Human: 303    accaggtatgtaatgtaatggaaaccaaaccacactggcttcgtacaaactggatct 362  
  ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Mouse: 499    accaggtatgtcatggaaaccaaaccagaacaaactggcttcgtactaactggatct 558

Human: 363    cccgtgatgcagctcagaaaatttatgtggaaatggaaattcacactaaggattgtaca 422  
  | ||||| ||| ||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Mouse: 559    ctcgtgatgctgcacagaaaatttatgtggaaatggatttcacactgaggattgtaca 618

Human: 423    gcatcccatgggtttgggacttgcggaaacatttaatgttttatatggatcag 482  
  ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Mouse: 619    gcatcccatgggtttgggacttgcggaaacctttaacctgtattatagaatccg 678

Human: 483    atgagtccacggaaattaaattcaagccaaaccagtatacaaaagatcgacacaattgctg 542  
  ||||| ||||| ||| | ||||| ||||| ||||| ||||| ||||| |||||  
Mouse: 679    atgaatcccatggacaaaattcaagccaaacatataaaagatcgacacaattgctg 738

Human: 543    ctgatgagatttacccagatggattttgggtatcgcatcctcaaactcaacactgaaa 602  
  ||||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Mouse: 739    ctgatgagatttactcagatggattttgggtacccatcctttaactcaacactgaaa 798

Human: 603    ttcgtgagggtgggcctatagaaaggaaaggattttatctggctttcaagacattgggg 662  
  | ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Mouse: 799    tccgtgagggtgggcctatagaaaggaaaggattttatggctttcaagatattggag 858

Human: 663    cgtgcattgcctgggttcagtcgtgtttctacaagaaatgccttcactgttcgta 722  
  | ||||| ||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Mouse: 859    catgcacgcgtctggcttcagtcggatttctacaaaaaatgccttcaccgtcgga 918

Human: 723    acttggccatgttccgtataccatccaagggttattccctctttgggtgaagtac 782  
  ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Mouse: 919    gcttggctatgttccgtataccatcccaagggttattccctctttgggtgaagtgc 978

Human: 783    ggggttcttgtgaagagtgcataaggactccaaactgtatttgagctg 842  
  ||||| ||| ||||| ||||| ||||| ||| ||||| ||||| |||||  
Mouse: 979    ggggctcatgtgtaaagagtgcaggagactccaaactctactgtggagctg 1038

Human: 843 atggagattggctggttccttggaaagggtcatctgcagtagcaggatataaaggaaatgg 902  
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Mouse: 1039 atggggattggcttgccttggaaagggtatctgcagtagcaggatataaaggaaatgg 1098

Human: 903 agggttcttgccatgctgcagaccaggattctataaaggctttgtggaaacacaaaat 962  
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Mouse: 1339 cacccagtgacacaggagggagaaaagatctcacatacagtgtaatctgttaagaaatgtg 1398

Human: 1203 gcttagacaccagccagtgtgaggactgtggggaggactccgcttcatccaaagacata 1262  
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Human: 1263 caggcctgatcaacaattccgtgatagtacttgactttgtctcacgtgaattacacct 1322  
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Mouse: 1459 ctggactgatcaacaattctgtggtagtactggactttgtctcacgtcaattataacct 1518

Human: 1323 ttgaaatagaagcaatgaatggagttctgagttgagttttctccaaaggcattcacag 1382  
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Mouse: 1519 ttgaaatagaagccatgaatggagttctgagttgagcatctccaaaggcattcacag 1578

Human: 1383 ctattacagtgaccacggatcaagatgcaccccttgcataagggtgtggtaaggaaggact 1442  
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Human: 1683 aaacaggagatgaaacttgcacatggcagcagaacaaggacagattctcgatagcca 1742  
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Human: 2583 caactgggtggaaaaatccccataaggtggacagccccagaagccatgcctacagaaaat 2642  
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Human: 2643 tctcctcagcaagcgatgcattggcattgtcatgtggaggtcatgtcctatg 2702  
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Human: 2703 gagagagactttatggaaatgtctaaccaggatgtcattgtccattgaagaagggt 2762  
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Human: 2763 acagacttccagctccatggctgtccagcatctcacaccagctgatgtccactgt 2822  
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Mouse: 3079 tgatccgaacccagtgccttcacacgctgggaggacatcctgtatgccagaat 3138

Human: 2943 cccctggtaagttccgaaatatccttgcacagtggactggcttagattcta 3002  
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Mouse: 3139 cccctggtgatgttccctgaatatccattgttgcacagtggactggctggattcta 3198

Human: 3003 taaagatgggcaatacacaagaataacttcgtggcagcagggttacaacattgacctga 3062  
|||||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
Mouse: 3199 taaagatgggcaatacagaacttcatggcagcgggtttacaacgtttgatctga 3258

Human: 3063 ttcaagaatgaggcattgtatgacattagaagaattggagtcatacttattggacaccaga 3122  
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Mouse: 3259 ttccacgaatgaggcatcgtatattaggcgaattggagtcatctcattggacatcga 3318

Human: 3123 gacgaatagtccgcacacactttacgtttacatgtatgcacatacaggagaagg 3182  
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Mouse: 3319 gacgaatagtccgcacacactttacgtttacatgtatgcacatacaggaaaaag 3378

Human: 3183 gatttcatgtatgaaagtaccacaaggcacctgtgtttgtgcctcagcattctaaaatg 3242  
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Mouse: 3379 gatttcatgtatgaaagtactataaacacactgtatcttgcctcagcatttacaaag 3438

Human: 3243 aacgatatacctctactactctcttctgattctccaaacatcacttcacaaactgca 3302  
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Mouse: 3439 aaagatattccctctacgactcattctgtatctccagcctccctaccacccacc 3498

Human: 3303 gtcttctgttcagactataggcacacacacccatgtttatgttgcctccaaccaggatttaaa 3362  
|||||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
Mouse: 3499 gtctctgttccgactatggctgcacacccatgtttatgttgcctccaaccctggattcaat 3558

Human: 3363 atcatgctacataaattccgttctgataaactcagcatggatgttgcataatggccactgcagat 3422  
| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
Mouse: 3559 accacgctacacaggctctctgataagcctgcaaaactctggccactgcagat 3618

Human: 3423 tattgctacgcaatggtaataactcagcatggatgttgcataatggccactgcagat 3482  
||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
Mouse: 3619 catcaactgcagaacgataaataactcagcatgttgcataatggccactgcagat 3677

Human: 3483 gggaaagtgttacggacttaacctaaaaaatttatcc--aggtggggcttccttagtga 3540  
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Mouse: 3678 gggaaagtgttcatggacttcacctaaggaaattgtcctaagtgtggcatcttcagaga 3737

Human: 3541 tttatgttagagtgtatggtagatgagaaagaacttagttgacctttttatgttttgt 3600  
||| ||| ||||| ||||| ||||| ||||| ||| ||| ||| ||| ||||| ||||| |||||  
Mouse: 3738 cgtgtgtggagttttagatgatagataagaagaaaatagctgatcattttccatgttttgt 3797

Human: 3601 gatcaagtagct 3612  
||||| |||||  
Mouse: 3798 gatcgagtagct 3809

**Figure 4**

bioRxiv preprint doi: <https://doi.org/10.1101/2023.08.22.550000>; this version posted August 22, 2023. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under a [aCC-BY-ND 4.0 International license](https://creativecommons.org/licenses/by-nd/4.0/).

KSE132 XM_035574	MGGCEVREFLLQFGFFLPLLTAWPGDCSHVSNNQVVLDDTTVLGELGWKTYPLNGWDAI 60
KSE132 XM_035574	-----
KSE132 XM_035574	TEMDEHNRPIHTYQVCNVMEPNQNNLRTNWISRDAAQKIQYVEMKFTLRDCNSIPWVLGT 120
KSE132 XM_035574	-----
KSE132 XM_035574	CKETFNLFYMESDESHGIKFKPQYTKIDTIAADESFTQMDLGDRILKLNTEIREVGPIE 180
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KSE132 XM_035574	-----
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KSE132 XM_035574	-----
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KSE132 XM_035574	-----
KSE132 XM_035574	KDLTYSVICKKCGLDTSQCEDCGGLRFIPRHTGLINNSIVLDFVSHVNYTFEIEAMNG 420
KSE132 XM_035574	-----
KSE132 XM_035574	VSELSFSPKPFTAIVTDDQDAPSLIGVVRKDWAQSNSIALSWQAPAFSNGAILDYEIKY 480
KSE132 XM_035574	-----
KSE132 XM_035574	YEKEHEQLTYSSTRSKAPSVIITGLKPATKYVFHIRVRTATGYSYSQKFEFETGDETSD 540
KSE132 XM_035574	-----
KSE132 XM_035574	MAAEQGQILVIATAAVGGFTLLVILTLFLITGRQCQWYIKAKMKSEEKRRNHLQNGHLRF 600
KSE132 XM_035574	MAAEQGQILVIATAAVGGFTLLVILTLFLITGRQCQWYIKAKMKSEEKRRNHLQNGHLRF 86
KSE132 XM_035574	*****
KSE132 XM_035574	PGIKTYIDPPTYEDPSLAVHEFAKEIDPSRIRIERVIGAGEFGEVCSGRLKTPGKREIPV 660
KSE132 XM_035574	PGIKTYIDPPTYEDPSLAVHEFAKEIDPSRIRIERVIGAGEFGEVCSGRLKTPGKREIPV 146
KSE132 XM_035574	*****
KSE132 XM_035574	AIKTLKGHHMDRQRDRFLREASIMQFDHPNIIRLEGVVTKRSFPAIGVEAFCPSFLRAG 720
KSE132 XM_035574	AIKTLKGHHMDRQRDRFLREASIMQFDHPNIIRLEGVVTKRSFPAIGVEAFCPSFLRAG 206
KSE132 XM_035574	*****
KSE132 XM_035574	FLNSIQAPHVPVGGSILPPRIPAGRPMIVVEYMEMGSLDSFLRKHDGHFTVIQLVGLR 780
KSE132 XM_035574	FLNSIQAPHVPVGGSILPPRIPAGRPMIVVEYMEMGSLDSFLRKHDGHFTVIQLVGLR 266
KSE132 XM_035574	*****
KSE132 XM_035574	GIASGMKYLSDMGYVHRDLAARNILVNSNLVCKVSDFGLSRVLEDDPEAAYTTGGKIP 840
KSE132 XM_035574	GIASGMKYLSDMGYVHRDLAARNILVNSNLVCKVSDFGLSRVLEDDPEAAYTTD----- 321
KSE132 XM_035574	*****
KSE132 XM_035574	RWTAPEAIAYRKFSSASDAWSYGYIVMWEVMSYGERPYWEMSNDVILSIEEGYRLPAPMG 900
KSE132 XM_035574	-----
KSE132 XM_035574	LFQTLTLNLCYSA----- 334
KSE132 XM_035574	*.. : .*
KSE132 XM_035574	CPASLHQMLHWCWQKERNHRPKFTDIVSFLDKLIRNPSALHTLVEDILVMPESPGEVPEY 960
KSE132 XM_035574	-----
KSE132 XM_035574	PLFVTVGDWLDSIKMGQYKNNFVAAGFTFDLISRMSIDDIRRIGVILIGHQRRIVSSIQ 1020
KSE132 XM_035574	-----
KSE132 XM_035574	TLRLHMMHIQEKGFHV 1036
KSE132 XM_035574	-----